

Abstract

A circuit configuration for operating a gas sensor (10) is described, including a reference gas space (18) in which an electrode (19) is situated which is supplied with a reference gas pump current (35) to maintain the concentration of the reference gas. A diagnostic system (39, 43, 5 44) determines a concentration change of the reference gas via a change in the reference pump current (35) and a time-based evaluation of the sensor signal (38) of the gas sensor (10).

(Figure 2)